ABSTRACT OF THE DISCLOSURE

Image dividing means of an RPU divides raw image data into divided image data A1 having 2048 horizontal pixels and A2 having 1024 horizontal pixels. The divided image data A1 is continuously processed in single pixel processing means and multiple pixel processing means and thereafter transferred to and stored in a buffer. The divided image data A2 is processed in the single pixel processing means and thereafter transferred to and temporarily stored in another buffer. The multiple pixel processing means reads and processes divided image data A2a stored in this buffer and thereafter transfers and stores the same to and in still another buffer. Image combining means reads divided image data A1b and A2b stored in the buffers and combines the same with each other. Thus, an image processing time and a cost can be reduced even if raw image data having horizontal pixels in a number exceeding the capacity of a line memory is received.